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10/621,324	07/18/2003	Feihong Chen	29250-000979/US	2523
32498 Capitol Pat	7590 03/27/2008 ΓΕΝΤ & TRADEMARK		EXAMINER  MOORE, IAN N	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
Advisory Action	10/621,324	CHEN ET AL.	
Before the Filing of an Appeal Brief	Examiner	Art Unit	
	lan N. Moore	2616	
The MAILING DATE of this communication appe	ears on the cover sheet with the	correspondence add	Iress
THE REPLY FILED 11 December 2007 FAILS TO PLACE THI			
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Notate and the periods:	owing replies: (1) an amendment, a otice of Appeal (with appeal fee) in nice with 37 CFR 1.114. The reply n	ffidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)
<ul> <li>a) The period for reply expires 3 months from the mailing dat</li> <li>b) The period for reply expires on: (1) the mailing date of this no event, however, will the statutory period for reply expire Examiner Note: If box 1 is checked, check either box (a) or</li> </ul>	Advisory Action, or (2) the date set fort later than SIX MONTHS from the maili	ng date of the final reject	ion.
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of eunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office late may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	706.07(f). e on which the petition under 37 CFR 1 xtension and the corresponding amoun shortened statutory period for reply orier than three months after the mailing do).	.136(a) and the appropriat of the fee. The appropriginally set in the final Offate of the final rejection,	ate extension fee riate extension fee ice action; or (2) as even if timely filed,
2. The Notice of Appeal was filed on A brief in comfiling the Notice of Appeal (37 CFR 41.37(a)), or any external a Notice of Appeal has been filed, any reply must be filed AMENDMENTS	ension thereof (37 CFR 41.37(e)), to distribute the time period set forth in	to avoid dismissal of th 37 CFR 41.37(a).	ne appeal. Since
3. The proposed amendment(s) filed after a final rejection,  (a) They raise new issues that would require further co  (b) They raise the issue of new matter (see NOTE beloc)  (c) They are not deemed to place the application in be	onsideration and/or search (see NO ow);	OTE below);	
appeal; and/or  (d) They present additional claims without canceling a  NOTE: See Continuation Sheet. (See 37 CFR 1.		ejected claims.	
4. The amendments are not in compliance with 37 CFR 1.		ompliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s			Lanca Bara de a
<ol> <li>Newly proposed or amended claim(s) would be a non-allowable claim(s).</li> </ol>	allowable if submitted in a separate	, timely filed amendme	ent canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proof the status of the claim(s) is (or will be) as follows:  Claim(s) allowed:  Claim(s) objected to:	) ⊠ will not be entered, or b) □ wovided below or appended.	vill be entered and an	explanation of
Claim(s) rejected: <u>1-24</u> . Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
8. The affidavit or other evidence filed after a final action, b because applicant failed to provide a showing of good ar was not earlier presented. See 37 CFR 1.116(e).	nd sufficient reasons why the affida -	wit or other evidence i	s necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessa	overcome <u>all</u> rejections under appropriate and was not earlier presented.	eal and/or appellant fa See 37 CFR 41.33(d)(	ils to provide a 1).
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	on of the status of the claims after	entry is below or attac	hed.
11.   The request for reconsideration has been considered b  See Continuation Sheet.		in condition for allowa	nce because:
12.  Note the attached Information Disclosure Statement(s).	. (PTO/SB/08) Paper No(s)		

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

13. Other: \_\_\_\_.

Continuation of 3. NOTE: Claim 13 is amended in lines 4 to include "after said receiving step". This additions made to claim 13 raise new issues.

Continuation of 11. does NOT place the application in condition for allowance because:

Rejected claim 1 is amended by incorporating rejected claim 2, and thus amended claim 1 is still rejected. Rejected claim 5 is amended by incorporating rejected claim 6, and thus amended claim 5 is still rejected. Rejected claim 9 is amended by incorporating rejected claim 10, and thus amended claim 9 is still rejected. Rejected claim 13 is amended by incorporating rejected claim 2, and Claim 13 is amended in lines 4 to include "after said receiving step". This additions made to claim 13 raise new issues as set forth above. Rejected claim 14 is amended by incorporating rejected claim 14, and thus amended claim 14 is still rejected. Rejected claim 17 is amended by incorporating rejected claim 18, and thus amended claim 17 is still rejected. Rejected claim 21 is amended by incorporating rejected claim 22, and thus amended claim 21 is still rejected.

Regarding claims 1-24, applicant argues that "..claims 1, 9 and 17 recites...the feature of detecting a failure along an "ingress region" of a primary path. Kanakubo is simply not pertinent...claims 1,9 and 17...the feature of allowing traffic to travel along the primary path when the failure is no longer detected. Dantu is simply not pertinent to this feature...claims 5,13 and 21...the feature of re-routing traffic from a primary path to an alternate path with devices that maintain the same quality of service as the primary path. Kanakubo does not disclose such an alternate path...nowhere in the excerpts relied on by the examiner is there mention of a quality of service (QoS) with respect to an alternate path, nor is maintenance of the same QoS implied by a "predefined static LSP"....claim 13 ...the forwarding table is used after receiving the failure message...Kanakubo is not pertinent because it in fact teaches a reverse sequence of steps..." in pages 6-8.

In response to argument, the examiner respectfully disagrees with the argument above.

With regards to claims 1,9,17, Kanakubo discloses a network device processing a method (see FIG. 1, LSR-P 1) comprising: means for detecting a failure (see FIG. 2, LSR 1 receiving/detecting fault occurrence a1) along an ingress region of a primary path (see FIG. 1, receiving fault indication along input/ingress side of normal LSP; see page 2, paragraph 25-30); and means for re-routing traffic (see FIG. 1, LSR-P performing LSP switching) from the primary path associated with an original IP address (see FIG. 1, from a normal path corresponding to protection point IP address) to an alternate path (see FIG. 1, to bypass LSP; see page 2, paragraph 29-36) which includes the device using a forwarding table (see FIG. 3, using LSP fault indication retrieval table) that includes Internet Protocol (IP) (see FIG. 3, IP address of the protection point) and Multi-Protocol Label Switched (MPLS) routing information (see FIG. 3, entry type and entry) while associating the original IP address to the alternate path upon detection of the failure (see FIG. 3, LSP fault indication retrieval table associates IP address of protection point to the bypass path when receiving fault indication; see page 3, paragraph 39-53); to allow traffic to travel along the primary path when the failure is no longer detected (see page 4, paragraph 56-57; see page 2, paragraph 34-35; when recovering from the fault, the packets routing over normal LSP (i.e. reverted protected switching)).

With regards to claims 1,9,17, Dantu discloses a network device (see FIG. 3, node 300/340/344/348; see FIG. 4-5, node 400/500; or see FIG. 6, Node 600/616/620/624) processing a method (see FIG. 9-11, Method) comprising: means for detecting (see FIG. 4, a combined system of processor 402, memory 404, and interface 412 performing examining/detecting; see col. 9, line 30 to col. 11, line 26; or see FIG. 5, a combined system of processor 502, memory 504, and interface 512 performing examining/detecting; see col. 12, line 39-64; see col. 13, line 30-40) a failure along an ingress region of a primary path (see FIG. 3, a failure occurs on a working path 332 between node 344 and 348; see FIG. 9, step 902; see FIG. 10, step 1002; see col. 9, line 30, line 63; see col. 17, line 10-20,45-55; see col. 10, line 25-36); and means for re-routing traffic (see FIG. 4, a combined system of processor 402, memory 404, storage 406 performing switching to protecting path ring in node 400; see col. 9, line 30 to col. 11, line 26; or see FIG. 5, a combined system of processor 502, memory 504, and storage 506 performing switching to protecting path ring in node 500; see col. 12, line 39-64; see col. 13, line 30-40) from the primary path associated with an original IP address (see FIG. 7, IP address 712/08) to an alternate path (see FIG. 3,6, protection path 336; see FIG. 7, a label 716 with path route) which includes the device using a forwarding table that includes Internet Protocol (IP) and Multi-Protocol Label Switched (MPLS) routing information (see FIG. 3, Forwarding table 312 and/or routing table 308; see FIG. 4, a combined system of memory 404 (e.g. routing table 404 A and forwarding table 404B) and storage 406 (e.g. table formation 406A and protection switching 406B) in node 400 includes IP addresses corresponding to MPLS labels; or see FIG. 5, a combined system of memory 504 (e.g. forwarding table 504A) and storage 506 (e.g. forwarding logic 506) in node 500 includes IP addresses corresponding to MPLS labels; see FIG. 10, \$ 1004, see FIG. 11, \$ 1104,1106; see col. 9, line 50 to col. 10, line 32; see col. 11, line 10-40; see col. 12, line 40-64; see col. 13, line 30-45; see col. 14, line 45-67; see col. 15, line 23-65; see col. 18, line 45-55; see col. 19, line 35-45) while associating the original IP address to the alternate path upon detection of the failure (see FIG. 4,5; see FIG. 10, S 1006,1008,1010; see FIG. 11, S 1108; see col. 9, line 50 to col. 10, line 32; see col. 11, line 10-40; see col. 12, line 40-64; see col. 13, line 30-45; see col. 14, line 45-67; see col. 15, line 23-65; see col. 18, line 45-55; see col. 19, line 35-46; switching IP address with its corresponding new label to the protection path when detecting a failure).

The applicant's broadly claimed invention discloses "a failure along an ingress section of a primary path". Nowhere in the claimed limitation that recites exactly where the failure occurs, and what consists of an ingress region. Thus, it is clear that Kanakubo clearly anticipated the applicant broadly claimed invention.

With regards to claims 5, 13 and 21, Kanakubo discloses a network device processing a method (see FIG. 1, LSR-P 1) comprising: means for receiving a failure message (see FIG. 2, LSR 1 receiving/detecting fault occurrence a1); means for re-routing traffic (see FIG. 1, LSR-P performing LSP switching) from a primary path associated with an original IP address (see FIG. 1, from a normal LSP path corresponding to protection point IP address; see page 2, paragraph 25-30) to an alternate path (see FIG. 1, to bypass LSP; see page 2, paragraph 29-36) using a forwarding table (see FIG. 3, using LSP fault indication retrieval table) that

includes IP see FIG. 3, IP address of the protection point) and MPLS routing information (see FIG. 3, entry type and entry), said means for re-routing maintaining the original address (see FIG. 3, LSP fault indication retrieval table associates IP address of protection point to the bypass path; see page 3, paragraph 39-53), the alternate path comprising devices (see FIG. 1, LSR 4 and LSR 5) which maintain the same quality of service as the primary path (see page 1, paragraph 17; see page 3, paragraph 37, 54; see page 4, paragraph 60; bypass LSP comprising LSR 4 and LSR 5 and bypass LSP utilizes the same QoS policy as normal LSP since it is predefined/static LSP) and are not a part of the primary path except for the network device and a destination network device (see FIG. LSR 4 and 5 are not part of the normal LSP except LSR-P 1 and LSR-6; see page 2, paragraph 25-32).

With regards to claims 5, 13 and 21, Dantu discloses a network device (see FIG. 3, node 300/340/344/348; see FIG. 4-5, node 400/500; or see FIG. 6, Node 600/616/620/624) processing a method (see FIG. 9-11, Method) comprising: means for receiving (see FIG. 4, Interface I/F 412; see FIG. 5, Interface I/F 512) a failure message (see FIG. 9, S 906, receiving a signal with error indication; see col. 17, line 11 to col. 18, line 11); means for re-routing traffic (see FIG. 4, a combined system of processor 402, memory 404, storage 406 performing switching to protecting path ring in node 400; see col. 9, line 30 to col. 11, line 26; or see FIG. 5, a combined system of processor 502, memory 504, and storage 506 performing switching to protecting path ring in node 500; see col. 12, line 39-64; see col. 13, line 30-40) from a primary path (see FIG. 3, a working path 332; see FIG. 9, step 902; see FIG. 10, step 1002; see col. 9, line 30, line 63; see col. 17, line 10-20,45-55; see col. 10, line 25-36) associated with an original IP address (see FIG. 7, IP address 712/08) to an alternate path (see FIG. 3,6, protection path 336; see FIG. 7, a label 716 with path route) using a forwarding table that includes IP and MPLS routing information (see FIG. 3, Forwarding table 312 and/or routing table 308; see FIG. 4, a combined system of memory 404 (e.g. routing table 404 A and forwarding table 404B) and storage 406 (e.g. table formation 406A and protection switching 406B) in node 400 includes IP addresses corresponding to MPLS labels; or see FIG. 5, a combined system of memory 504 (e.g. forwarding table 504A) and storage 506 (e.g. forwarding logic 506) in node 500 includes IP addresses corresponding to MPLS labels; see FIG. 10, S 1004, see FIG. 11, S 1104, 1106; see col. 9, line 50 to col. 10, line 32; see col. 11, line 10-40; see col. 12, line 40-64; see col. 13, line 30-45; see col. 14, line 45-67; see col. 15, line 23-65; see col. 18, line 45-55; see col. 19, line 35-45), said means for re-routing maintaining the original address (see FIG. 4,5; see FIG. 10, S 1006,1008,1010; see FIG. 11, S 1108; see col. 9, line 50 to col. 10, line 32; see col. 11, line 10-40; see col. 12, line 40-64; see col. 13, line 30-45; see col. 14, line 45-67; see col. 15, line 23-65; see col. 18, line 45-55; see col. 19, line 35-46; switching IP address with its corresponding new label to the protection path), the alternate path comprising devices (see FIG. 3, intermediate nodes 348) which maintain the same quality of service as the primary path (see FIG. 10, S 1106,1008,1010; FIG. 11, S 1104-1108: see col. 9, line 50 to col. 10, line 32; see col. 11, line 10-40; see col. 12, line 40-64; see col. 13, line 30-45; see col. 14, line 45-67; see col. 15. line 23-65; see col. 18. line 45-55; see col. 19, line 35-46; assigning QoS level of IP packet in the working path to the same QoS level in the protection path while creating a new label) and are not a part of the primary path except for the network device and a destination network device (see FIG. 3, intermediate node 348 are not part of the working path; see col. 8, line 60 to col. 9, line 62).

For additional response, please see response to argument in final action, pages 8-11.

In response to arguments with regards to claim 13 on forwarding table is used after receiving the failure message. Since the additional limitation "after said receiving steps" is added in line, it introduces new issue.

INM 12/18/07

> DORIS H. TO SUPPOVISORY PATENT EXAMINER

THOMPOLOGY CENTER 2600